

CLAIM LISTING

The following is a complete listing of claims, which replaces all prior versions of the claims:

1. (Original) A detachable endovascular device assembly, comprising:

a delivery member to deliver the detachable endovascular device assembly to an aneurysm in a body;

a detachable endovascular device including a thermo-resistive element to deliver heat to the detachable endovascular device with passage of a first electrical current through the thermo-resistive element and the detachable endovascular device adapted to take a predetermined shape as a result of the heating; and

a detachable joint joining the detachable endovascular device to the delivery member and adapted to separate to deploy the detachable endovascular device into the aneurysm for embolization thereof.

2. (Original) The assembly of claim 1, wherein the detachable joint comprises an electrolytic sacrificial joint joining the detachable endovascular device and the delivery member and adapted to separate with passage of a second electrical current therethrough to deploy the detachable endovascular device into the aneurysm for embolization thereof.

3. (Original) The assembly of claim 2, wherein the electrolytic sacrificial joint includes a first conductive wire and a second conductive wire with an electrolytic path therebetween having an electrical resistance, and the thermo-resistive element of the detachable endovascular device having an electrical resistance lower than the electrical resistance of the electrolytic path.

4. (Original) The assembly of claim 1, wherein the delivery member includes a catheter.
5. (Original) The assembly of claim 1, wherein the delivery member includes a push wire.
6. (Original) The assembly of claim 1, wherein the detachable endovascular device includes a thermo-sensitive, shape memory material that takes a predetermined shape when heated by the thermo-resistive element.
7. (Original) The assembly of claim 1, wherein the detachable endovascular device includes a thermo-resistive, shape memory element and a polymer that normally holds the detachable endovascular device in a compact configuration and deforms upon heating of the polymer with the thermo-resistive, shape memory element, causing the detachable endovascular device to take a predetermined shape dictated by the thermo-resistive, shape memory element.
8. (Original) The assembly of claim 1, wherein the thermo-resistive element may be one or more thermo-resistive elements.
9. (Original) The assembly of claim 1, wherein the thermo-resistive element is made of a platinum-tungsten (PtW) alloy.
10. (Original) The assembly of claim 1, wherein the thermo-resistive element includes a thermo-resistive wire.

11. (Original) The assembly of claim 1, wherein the thermo-resistive element includes a thin film.

12. (Original) The assembly of claim 1, wherein the thermo-resistive element is radio-opaque.

13-31. (Withdrawn)

32. (Original) A detachable device assembly for treating a patient, comprising:

a delivery member to deliver the electrolytically detachable device assembly to a target location within a patient;

a detachable device including an electrically responsive element activatable by passing a first electrical current through the electrically responsive element; and

a detachable joint joining the detachable device to the delivery member and adapted to separate to deploy the detachable device from the delivery member.

33. (Original) The assembly of claim 32, wherein the detachable joint comprises an electrolytic sacrificial joint joining the detachable device and the delivery member and adapted to separate by passing a second electrical current therethrough to deploy the detachable device at the target location.

34. (Original) The assembly of claim 32, wherein the electrically responsive element includes a thermo-resistive element to deliver heat to the detachable device with passage of the first electrical current through the thermo-resistive element and the detachable device adapted to take a predetermined shape as a result of the heating.

35-38. (Withdrawn)

39. (Original) The assembly of claim 32, wherein the electrically responsive element comprises one or more electrically activatable elements.


40-48. (Withdrawn)

Examination of the application is requested. Any questions regarding the above election should be brought to undersigned's attention.

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Respectfully submitted,
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